

## Amendment to the Claims

Cancel all previous claims 1-34 and amend claims 35- 51

35 (currently amended) A cable construction comprising an insulated wire or a plurality of insulated wires formed into a core or a plurality of insulated wire cores and a dual layer polymer-based non-halogen protective sheath around said insulated wires or insulated wire cores ~~comprising consisting of:~~

(i) an intumescent solid, non-foamed polymer layer as means for providing thermal, fire, physical and mechanical protection; and

(ii) an inner solid, non-foamed polymer layer as means for providing a second layer of fire protection thereby providing said cable construction with initial and long term protection against heat and combustion.

36 (previously added) The protective cable sheath component defined in claim 35 wherein the outer layer contains a polypropylene or polypropylene copolymer as the base resin.

37 (previously added) The protective cable sheath component defined in claim 36 wherein the intumescent material of the outer layer is an activated polyphosphate or a melamine phosphate or a melamine pyrophosphate alone or admixed with about an equal quantity of melamine resin.

38 (previously added) The protective cable sheath component defined in claim 37 wherein the intumescent materials are in about 5 to about 100 parts by weight contained in 100 parts by weight of the polypropylene or polypropylene copolymer resin.

39 (previously added) The protective cable sheath component defined in claim 35 wherein the outer layer is of a predetermined thickness to provide sufficient thermal protection to the flame retarded inner layer whereby the combination substantially prevents flame spread in cable constructions.

40 (previously added) The protective cable sheath component defined in claim 35 wherein the inner layer is a non-halogen extrudable composition of

(A) a copolymer of ethylene and an unsaturated ester comonomer of a vinyl carboxylate wherein the carboxylate group has 2 to 5 carbon atoms;

(B) the copolymer is, optionally, modified with an anhydride of an unsaturated aliphatic diacid having 4 to 10 carbon atoms;

(C) the copolymer (A) has an ester content in the range of about 15 to 40 percent

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based on the weight of the copolymer and a melt index in the range of about 2 to about 25 grams per 10 minutes; and, for each 100 parts by weight of components (A) and about 100 to 250 parts by weight of magnesium hydroxide, coated or coated.

41 (previously added) The inner layer defined in claim 40 wherein the unsaturated ester comonomer is vinyl acetate.

42 (previously added) A plenum or riser cable comprising a conductor core and at least one layer surrounding the core comprising the dual layer non-halogen protective cable sheath defined in claim 35.

43 (Currently amended) A dual layer polymer-based, non-halogen, corrosion resistant insulated wire construction ~~comprising~~ consisting of :

(i) an intumescent outer solid non-foamed polyolefin layer as means for providing thermal, fire, physical and mechanical protection; and

(ii) an inner polyolefin layer as means for providing electrical insulation and fire and corrosion protection for the construction, said dual layer is a predetermined thickness of at least 5 mils.

44 (previously added) The insulated wire construction defined in claim 43 wherein the outer layer is an extrudable composition consisting essentially of;

(a) a polypropylene or polypropylene copolymer

(b) intumescent material that is an activated polyphosphate or a melamine phosphate or a melamine pyrophosphate alone or admixed with about an equal quantity of melamine resin.

45 (previously added) The insulated wire construction defined in claim 44 wherein the intumescent materials are in about 5 to 100 parts by weight contained in 100 parts by weight of the polypropylene or polypropylene copolymer.

46 (previously added) The insulated wire construction defined in claim 43 wherein the outer layer is of a predetermined thickness of at least 1 mil to provide sufficient thermal protection to the flame retarded inner layer whereby the combination substantially reduces flame spread along the construction.

47 (currently amended) The dual layer non-halogen insulated wire construction

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defined in claim 43 wherein the inner insulating layer is formed of a polypropylene or polypropylene copolymer and contains sufficient acid neutralizer as means to prevent conductor corrosion.

48(previously added) The inner insulating layer defined in claim 47 wherein the acid neutralizer is magnesium or calcium hydroxide.

49 (previously added) The acid neutralizer defined in claim 47 is in about 0.5 to 50 parts by weight contained in 100 parts by weight of polypropylene or polypropylene copolymer.

50 (previously added) A building wire comprising a metal conductor protected against fire and corrosion by the dual layer defined in claim 43.

51 (previously added) An automotive primary wire insulation comprising a metal conductor protected against fire and corrosion by the dual layer defined in claim 43.